

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L17	1	(propane same "natural gas") same appliance and "glow plug"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 12:29
L16	0	(propane same "natural gas") same appliance and "glow plu"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 12:29
L15	194	(propane same "natural gas") same appliance	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 12:28
L14	5	((("5233166") or ("5206484") or ("4762982") or ("4418661") or ("3589846"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/10/27 12:28
L13	4	((("5233166") or ("5206484") or ("4762982") or ("4418661"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/10/27 11:37
L12	3	((("5233166") or ("5206484") or ("4762982"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/10/27 10:07
L11	12	((("glow plug") same preheat\$3) same (rapid\$3 fast quick\$4 instantaneous) and sinter\$4	USPAT	OR	ON	2007/10/27 10:06
L10	62	((("glow plug") same preheat\$3) same (rapid\$3 fast quick\$4 instantaneous)	USPAT	OR	ON	2007/10/27 09:52
L9	209	((("glow plug") same preheat\$3) and (rapid\$3 fast quick\$4 instantaneous)	USPAT	OR	ON	2007/10/27 09:51
L8	307	((("glow plug") same preheat\$3)	USPAT	OR	ON	2007/10/27 09:51
L7	36	((ceramic and ignition) and seconds) and "widely" and "electric resistance"	USPAT	OR	ON	2007/10/27 09:50
L6	8	((ceramic and ignition) and seconds) and "widely used" and "electric resistance"	USPAT	OR	ON	2007/10/27 09:37
L5	3	((ceramic and ignition) and seconds) and "widely known" and "electric resistance"	USPAT	OR	ON	2007/10/27 09:35
L4	30	((ceramic and ignition) and seconds) and "widely known" and "electric resistance"	USPAT	OR	ON	2007/10/27 09:25

## EAST Search History

L3	15	((ceramic same ignition) same seconds) and "known" and "electric resistance"	USPAT	OR	ON	2007/10/27 09:24
L2	0	((ceramic same ignition) same seconds) and "widely known" and "electric resistance"	USPAT	OR	ON	2007/10/27 09:07
L1	0	(("glow plug" same ignition) same seconds) and "widely known"	USPAT	OR	ON	2007/10/27 09:07
S15 1	17	(ignition same seconds) and (sinter\$4 same ceramic)	USOCR	OR	OFF	2007/10/26 20:12
S15 0	13	(ignition same seconds) and (sintered same ceramic)	USOCR	OR	OFF	2007/10/26 20:11
S14 9	52	(ignition same seconds) and (sintered same ceramic)	USPAT	OR	OFF	2007/10/26 20:05
S14 8	386	ignition and seconds and sintered and ceramic	USPAT	OR	OFF	2007/10/26 19:43
S14 7	0	ignition and seconds and sintered and ceramic	EPO; JPO; DERWENT	OR	OFF	2007/10/26 19:43
S14 6	0	("glow plug" same ignition) same seconds and sintered and ceramic	EPO; JPO; DERWENT	OR	OFF	2007/10/26 19:42
S14 5	2	("glow plug" same ignition) same seconds and sintered and ceramic	USPAT	OR	OFF	2007/10/26 19:42
S14 4	9	("glow plug" same ignition) same seconds and sintered and ceramic	USPAT	OR	ON	2007/10/26 19:37
S14 3	243874	("glow plug" same ignition) same seconds and sintered snfd ceramic	USPAT	OR	ON	2007/10/26 19:36
S14 2	14	("glow plug" same ignition) same seconds and sintered	USPAT	OR	ON	2007/10/26 19:36
S14 1	159	("glow plug" same ignition) same seconds	USPAT	OR	ON	2007/10/26 19:36
S14 0	1329	"glow plug" and ignition and seconds	USPAT	OR	ON	2007/10/26 19:35
S13 9	3	("less than" same seconds)	USPAT	OR	ON	2007/10/26 19:35
S13 8	0	("less than" adj seconds)	USPAT	OR	ON	2007/10/26 19:35
S13 7	1	("less than" adj3 seconds)	USPAT	OR	ON	2007/10/26 19:35
S13 6	21	("4418661").URPN.	USPAT	OR	ON	2007/10/26 19:34

## EAST Search History

S13 5	285	ignition and ("sintered ceramic" )	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:19
S13 4	2	ignition and ("sintered ceramic" same "electric resistance")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:19
S13 3	27	"sintered ceramic" same "electric resistance"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:19
S13 2	4	((("5660043") or ("5899684"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/26 19:15
S13 1	2	("5660043").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/26 18:27
S13 0	0	"5660043".pn. and ceramic	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 18:19
S12 9	0	"5660043.pn." and ceramic	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 18:19
S12 8	0	"5660043" and ceramic	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 18:19

## EAST Search History

S12 7	2	("5660043").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/26 18:18
S12 6	67	(431/1,2,114,350,354,355.CCLS. 181/229.ccls. 126/512,39R,41R.ccls.) and @pd>="20070601"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 18:18
S12 5	2	("7252052").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/26 17:32
S12 4	1	"combustion chamber" and "gas burner" and "air intake" and "primary" and mix\$5 and outside and (oscillation\$9 damp\$5) and "main air inlet" and Helmholtz and "exterior wall" and perforations and "additional air"	US-PGPUB	OR	ON	2007/10/26 17:27
S12 3	1	"combustion chamber" and "gas burner" and "air intake" and "primary" and mix\$5 and outside and (oscillation\$9 damp\$5) and "main air inlet" and Helmholtz and "exterior wall" and perforations and "additional air"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 13:55
S12 2	4798	"combustion chamber" and "gas burner" (S99) and "air intake" and "primary" and mix\$5 and outside and (oscillation\$9 damp\$5) and "main air inlet" and Helmholtz and "exterior wall" and perforations and "additional air"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 13:55
S12 1	6	"122"/\$.ccls. and helmholtz	USPAT	OR	ON	2007/10/26 13:27
S12 0	1	"122"/\$.ccls. and helmholtz	USOCR	OR	ON	2007/10/26 13:27
S11 9	15	431/354.ccls. and noise	USOCR	OR	ON	2007/10/26 13:26
S11 8	2	431/355.ccls. and noise	USOCR	OR	ON	2007/10/26 13:24

## EAST Search History

S11 7	1	431/355.ccls. and noise	US-PGPUB; USPAT	OR	ON	2007/10/26 13:23
S11 6	243	431/355.ccls.	US-PGPUB; USPAT	OR	ON	2007/10/26 13:23
S11 5	261	431/114.ccls.	US-PGPUB; USPAT	OR	ON	2007/10/26 13:22
S11 4	102	431/114.ccls.	EPO; JPO; DERWENT	OR	ON	2007/10/26 13:22
S11 3	1	helmholtz and f24c\$8	EPO; JPO; DERWENT	OR	ON	2007/10/26 13:14
S11 2	12	helmholtz and f23d\$8	EPO; JPO; DERWENT	OR	ON	2007/10/26 13:13
S11 1	29	helmholtz and burner	EPO; JPO; DERWENT	OR	ON	2007/10/26 13:12
S11 0	369	helmholtz and air	EPO; JPO; DERWENT	OR	ON	2007/10/26 13:12
S10 6	1652	helmholtz	EPO; JPO; DERWENT	OR	ON	2007/10/26 13:11
S10 9	41	helmholtz and 60/725.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/10/26 13:07
S10 8	0	helmholtz and 60/725.ccls.	EPO; JPO; DERWENT	OR	ON	2007/10/26 13:07
S10 7	110	helmholtz and inlet	EPO; JPO; DERWENT	OR	ON	2007/10/26 13:06
S10 5	14	helmholtz and "181"/214.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/10/26 12:47
S10 4	27	helmholtz and "181"/229.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/10/26 12:46
S10 3	5	helmholtz and "181"/247.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/10/26 12:43
S10 2	13	helmholtz and "181"/284.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/10/26 12:41

## EAST Search History

S98	196	helmholtz and "181"/\$.ccds. and combustion	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/10/26 12:40
S10 1	15	("2807931"   "3113634"   "3159238"   "4199936"   "4449607"   "4944362"   "5373695"   "5590849"   "5644918"   "5685157"   "5975238"   "6837050"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 12:35
S10 0	0	("2003/0183446").URPN.	USPAT	OR	ON	2007/10/26 12:29
S99	0	("2003/0183446").URPN.	USPAT	OR	ON	2007/10/26 12:29
S97	10	helmholtz and "181"/\$.ccds. and burner	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/10/26 12:15
S96	273	helmholtz and "181"/\$.ccds. and inlet	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/10/26 12:12
S95	612	helmholtz and "181"/\$.ccds.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/10/26 12:12
S94	10	("3848697"   "4199936"   "5660044"   "5765376"   "5784876"   "5941076"   "6351947"   "6609376"   "6640544"   "6732527").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/25 14:11
S93	6	("6351947").URPN.	USPAT	OR	ON	2007/10/25 14:10
S92	10	("2654219"   "3848694"   "4109459"   "4833881"   "5373695"   "5431018"   "5644918"   "5765376"   "5941076"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/25 14:09
S91	117	helmholtz same perforations	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/10/25 14:02
S90	6167	helmholtz	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/10/25 14:02
S89	46	(431/8-10.ccls. 431/180-188.ccls.) and (vane blade)	EPO; JPO	OR	ON	2007/10/24 17:14

## EAST Search History

S88	688	431/8-10.ccls. 431/180-188.ccls.	EPO; JPO	OR	ON	2007/10/24 17:12
S87	9	431/8-10.ccls. and 431/180-188.ccls.	EPO; JPO	OR	ON	2007/10/24 17:12
S86	0	431/8-10.ccls. and 431/180-188.ccls. and yeung.xp.	EPO; JPO	OR	ON	2007/10/24 17:11
S79	29	431/8-10.ccls. and 431/180-188.ccls. and yeung.xp.	USPAT	OR	ON	2007/10/24 17:11
S85	5	("5518395").URPN.	USPAT	OR	ON	2007/10/24 16:55
S84	5	("5518395").URPN.	USPAT	OR	ON	2007/10/24 16:51
S83	0	("6095791").URPN.	USPAT	OR	ON	2007/10/24 16:48
S82	0	("6095791").URPN.	USPAT	OR	ON	2007/10/24 16:48
S81	9	("1918326"   "2143958"   "4261511"   "4383820"   "4897089"   "4967561"   "5487659").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/24 16:47
S80	9	("1918326"   "2143958"   "4261511"   "4383820"   "4897089"   "4967561"   "5487659").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/24 16:47
S78	320	431/8-10.ccls. and 431/180-188.ccls.	USPAT	OR	ON	2007/10/24 16:45
S77	13	("3720497").URPN.	USPAT	OR	ON	2007/10/24 16:45
S76	6	("3265113"   "3414362"   "3485566").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/24 14:21
S75	2	("20030111023").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/24 12:52
S74	89	venturi and noise	EPO; JPO	OR	ON	2007/10/24 12:52
S73	1	venturi and noise and cavity	EPO; JPO	OR	ON	2007/10/24 12:37
S72	870	venturi and noise and cavity	US-PGPUB; USPAT	OR	ON	2007/10/24 12:35
S71	870	venturi and noise and cavity	US-PGPUB; USPAT	OR	ON	2007/10/24 11:45
S70	26	("1257600" "1809684" "2199771" "2531139" "2869670" "2897885" "20030183446" "20040157179" "20050175951" "20050229581" "3720497" "3773075" "3819319" "3940234" "4168948" "4475621" "4747391" "4829978" "4953510" "4983510" "5408986" "5875739" "6106276" "6148954" "6491514" "6491514" "6945196").PN.	US-PGPUB; USPAT	OR	ON	2007/10/24 11:44

## EAST Search History

S1	330	"helmholtz resonator" and intake	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/24 11:21
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